

Appl. No. 10/775,116
Amdt. Dated Jan. 10, 2006
Reply to Office Action of Nov. 03, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended)

A vehicle speed controller, comprising:

a rotary input device for human operation capable of continuous rotary motion
mounted to a vehicle being mechanically independent of means for propelling said vehicle;

speed sensing means responsive to changes in the angular velocity of said rotary
input device;

a power source carried by said vehicle;

~~remote motive~~ a motor connected to said power output means for propelling said
vehicle, said motor being mechanically independent of said rotary input device; and

a controller electrically connected to ~~said rotary input device~~, said speed sensing
means, said power source, and said ~~remote power output means~~ motor, said controller being
operative to proportionally regulate ~~increase the~~ power supplied from said power source to said
~~motive motor only relative to power output means~~ as the sensed speed of said rotary input device
~~increases~~ in a continuous range from zero power when said rotary input device is halted.

Claim 2 (original)

The speed controller of claim 1 wherein said rotary input device includes operator
foot pedals.

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Claim 3 (original)

The speed controller of claim 1 wherein said rotary input device further includes handle means for hand operation by the operator.

Claim 4 (original)

The speed controller of claim 1 wherein said vehicle is a land vehicle.

Claim 5 (original)

The speed controller of claim 4 wherein said vehicle is wheeled.

Claim 6 (currently amended)

The speed controller of claim 5 wherein said ~~remote motive~~ motor ~~power output~~ ~~means~~ mechanically drives one or more wheels.

Claim 7 (currently amended)

The speed controller of claim 6 wherein said ~~output means~~ motor comprises an electric motor.

Claim 8 (currently amended)

The speed controller of claim 7 wherein said speed sensing means is an electric generator mechanically driven by said rotary input means.

Claim 9 (currently amended)

The speed controller of claim 8 wherein said sensing means is operative to selectively provides substantial mechanical resistance to the rotation of said rotary input device.

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Claim 10 (currently amended)

The speed controller of claim 9 ~~8~~ wherein ~~said mechanical resistance means is~~
further including electrical resistance means connected to the electrical output of said generator.

Claim 11 (original)

The speed controller of claim 10 further described in that said electric resistance means is manually settable to provide variable amounts of mechanical resistance.

Claim 12 (currently amended)

The speed controller of claim ~~11~~ 1 wherein said power source is a battery.

Claim 13 (original)

The speed controller of claim 12 further including a circuit breaker to disconnect said power source.

Claim 14 (currently amended)

The speed controller of claim ~~13~~ 1 further including means for selectively varying the proportional amount of electrical power increase to said ~~motive motor power output device~~ relative to the increase in the sensed speed of the rotary input device.

Claim 15 (currently amended)

The speed controller of claim 1 wherein said rotary input device further includes a drive sprocket, idler sprocket, and a drive chain extending therebetween, said sprockets and chain being visually simulative of a bicycle~~-type~~ chain drive.

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Claim 16 (currently amended)

A vehicle having an electrical speed controller, comprising:

a vehicle;

a rotary input device capable of continuous rotary motion mounted to said vehicle
for human operation;

sensing means incrementally responsive to the angular position of said rotary input
device;

a power source carried by said vehicle;

~~remote motive~~ motor power output means for propelling said vehicle mechanically
independent of said rotary input device ~~for propelling said vehicle~~;

a controller electrically connected to ~~said rotary input device~~, said sensing means,
said power source, and said ~~remote~~ motor power output means; and

said controller being operative to provide power from said power source to said
motor power output means so that the angular position of said motor output means proportional
to the angular position of said rotary input device is maintained.

Claim 17 (original)

The vehicle speed controller of claim 1 further including a key switch which in the
off position shorts out the output of the speed controller to disable it.

Claim 18 (new)

The speed controller of claim 16 wherein said speed sensing means is a first rotary

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encoder.

Claim 19 (new)

The vehicle speed controller of claim 18 further including a second encoder connected to said motor output means for determining its angular position of rotation.